

ABSTRACT

A plurality of antenna electrodes 11, 12, 13, 14 on a substrate 1 can be connected to a ground electrode on the substrate 1 via connectors at spots 11A - 11C, 12A - 12C, 13A - 13C, and 14A - 14C. Each connector can be opened/closed by a switch; or provided with a impedance varying device. Any one of the antenna electrodes may be connected to the ground electrode by the switch or the impedance varying device. The radio wave beam outputted from this antenna electrode shifts in phase from the radio wave beams outputted from the other antenna electrodes, whereby the direction of the integrated radio wave beam is inclined. Connecting one or another of the spots 11A - 11C, 12A - 12C, 13A - 13C, and 14A - 14C to the ground electrode changes the direction and the magnitude of the integrated radio wave beam.